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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	4			
09/635,524	08/09/2000		ATTORNEY DOCKET NO.	CONFIRMATION NO		
		Hiroyuki Takahashi	P19483	5635		
	590 10/07/2003					
GREENBLUN	M & BERNSTEIN, P.L.C.	EXAM	EXAMINER			
1950 ROLAND	CLARKE PLACE		LEE, CHRIS	STOPHER E		
RESTON, VA	20191					
			ART UNIT	PAPER NUMBER		
	· ·		2189			
			DATE MAILED: 10/07/200	3 .		
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Please find below and/or attached an Office communication concerning this application or proceeding.

1			Δ	pplication	No.	A 41	
					No. —	Applicant(s)	O
	Offic	Action Summary		9/635,524		TAKAHASHI, HIROYUKI	
				kaminer		Art Unit	
-	The MAIL	LING DATE of this commu	Cl	nristopher E	. Lee	2189	
Period	for Reply	LING DATE of this commu	incauon appear.	s on the c	ver sheet with the c	rrespondence ad	ldress
- Ex afi - If I - If I - Fa - An	tensions of time ner SIX (6) MONTHe period for reply NO period for reply illure to reply withing reply received by reply received by reply received by	O STATUTORY PERIOD I DATE OF THIS COMMUN may be available under the provision HS from the mailing date of this com by specified above is less than thirty (by is specified above, the maximum is in the set or extended period for repl by the Office later than three months adjustment. See 37 CFR 1.704(b).	us of 37 CFR 1.136(a). Imunication. (30) days, a reply withistatutory period will ap	In no event, hin the statutory ply and will exp	nowever, may a reply be time minimum of thirty (30) days pire SIX (6) MONTHS from to	ely filed will be considered timel	y. ommunication.
1)[∑	Responsi	ive to communication(s) f	iled on 08 Septe	ember 200	3		
2a)⊠		on is FINAL .	2b) This ac				
3)[Since this	application is in condition	n for allowance	except for	formal matters		
Disposi	closed in tion of Clair		tice under Ex p	arte Quayi	le, 1935 C.D. 11, 45	isecution as to this 3 O.G. 213.	e merits is
4)区	Claim(s) <u>1</u>	-7 is/are pending in the a	pplication.				
1	4a) Of the a	above claim(s) is/a	re withdrawn fro	om conside	eration.		
5)	Claim(s)	is/are allowed.					
6)⊠	Claim(s) 1-	<u>·7</u> is/are rejected.					
í		is/are objected to.					
1		are subject to restric	tion and/or elec	tion requir	'ement		
Applicat	ion Papers	•		on requir	ement.		
9)	The specific	ation is objected to by the	e Examiner.				
		(s) filed on is/are:		r b)∏ obie∉	cted to by the Exami	iner	
	Applicant n	nay not request that any obj	ection to the draw	ving(s) be h	eld in abevance. See	37 CER 1.85(a)	
11)🛛	The propose	ed drawing correction filed	d on <u>08 Septem</u>	<i>ber 2003</i> is	s: a) approved b)	disapproved t	ov the Evenines
	If approved	, corrected drawings are rec	quired in reply to t	this Office a	ction.		y the Examiner.
12)	The oath or o	declaration is objected to	by the Examine	er.			
Priority ι	ınder 35 U.S	S.C. §§ 119 and 120					
13)	Acknowledg	ment is made of a claim	for foreign prior	itv under 3	35 U.S.C. & 119(a) ₋ (d) or (f)	
a)[☐ All b)☐	Some * c)☐ None of:	3 , 1		- 0.0.0. 3 110(a)-(a) or (1).	
	1. Certifi	ied copies of the priority o	documents have	e been rec	eived		
	2. Certifi	ied copies of the priority o	documents have	e been rece	eived in Application	No	
	3. Copie	es of the certified copies o	of the priority do	cuments h	ave been received	in this Netice I C	
* S	ee the attach	ned detailed Office action	for a list of the	certified co	17.2(a)). opies not received.		
14)∟ A	cknowledgm	ent is made of a claim for	r domestic prior	ity under 3	35 U.S.C. § 119(e) (to a provisional a	innlication)
a	I ∟ Ine tran	slation of the foreign land	uage provision	al annlicati	ion has been receive	a al	pprioditori).
10)	ckilowiedgii	nent is made of a claim fo	r domestic prior	ity under 3	35 U.S.C. §§ 120 ar	id/or 121.	
Attachment	(S)						
2) Notice 3) Inform	of Draftsperson nation Disclosure	Cited (PTO-892) n's Patent Drawing Review (PTo e Statement(s) (PTO-1449) Pap	O-948) per No(s)	4) 5) 6)	Interview Summary (PT Notice of Informal Pate Other:	ΓΟ-413) Paper No(s). nt Application (PTΟ-	152)
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DETAILED ACTION

Receipt Acknowledgement

1. Receipt is acknowledged of the Amendment filed on 8th of September 2003. Claims 1-7 have been amended; claim 8 has been canceled; and no claim has been newly added since the last Office Action was mailed on 9th of April 2003. Currently, claims 1-7 are pending in this application.

Claim Objections

Claims 2-7 are objected to because of the following informalities:
 Substitute "A microcomputer" in line 1 of the claims 2-7 by --the microcomputer--, respectively.
 In the claim 2, it recites the subject matter "an address-coincidence-disabling system" in line 4.
 However, the same subject matter has been defined in the parent claim 1.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 4. Claims 1-7 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for scrapping return-address, temporarily stored in the stack memory area of the RAM, without being restored into the program counter, and jumping to the instruction for calling the next subroutine (See Application, page 70, lines 1-15, and Fig. 31, steps J3 and J4), does not reasonably provide enablement for setting the comparison address data (i.e., address data of the defective part in the ROM) as a return-address data in the program counter when the interruption-processing is completed (See claim 1). The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to use the invention commensurate in scope with these claims. Furthermore, the claim 1 recites the limitation "an address-coincidence-disabling system that disables the

coincidence between said comparison address data and said return-address set in said program counter by said return-address-setter", which causes that the claimed invention cannot achieve the objective of the applicant's invention, such that the objection of the applicant's invention is to provide a microcomputer with a program-revision ability, wherein a revision can be made in an optional location of programs stored in a ROM thereof (See Application, page 4, line 23 through page 5, line 1), because said controller/calculator (i.e., CPU) would fetch and execute the defective part of ROM after completion of the revision execution, i.e., the program counter has been set said comparison address data (i.e., address data of the defective part in ROM) as the return address of the interrupt-processing when the interruption-processing has been completed (See claim 1). The claims 2-7 are dependent claims of the claim 1.

Response to Arguments

5. Applicant's arguments filed on 8th of September 2003 have been fully considered but they are not persuasive.

In response to the Applicant's argument with respect to "the specification is sufficiently enabling with respect to the subject matter of amended claim 1" on the Response, pages 7-9, the Examiner respectfully disagrees.

The Applicant states that the return-address, temporarily stored in the stack memory area of the RAM, is scrapped without being returned to the program counter (See Application, page 70, lines 1-4), and restored into the program counter, and jumping to the instruction for calling the next subroutine (See Application, page 70, lines 1-15, and Fig. 31, steps J3 and J4). In other words, the defected part in the ROM is skipped over, and the program counter is pointing out the instruction for calling the next subroutine, which is under a good condition in the ROM.

However, the Applicant's disclosure does not reasonably provide enablement for the scope of the claimed invention, such that setting the comparison address data (i.e., address data of the defective part in the ROM) as a return-address data in the program counter when the interruption-processing is completed (See

claim 1, lines 23-25) because the comparison address data has been clearly defined as an address data of the program in the ROM, which is to be virtually revised by a revisional program in the RAM (See claim 1, lines 7-12), then a return-address-setter sets return-address data in the program counter to coincide with the comparison address data (i.e., address data of the program in the ROM) when execution of the interruption-process in accordance with the revisional program is completed (i.e., after the completion of revisional program execution, the program in the ROM, which has been revised by the revisional program in the RAM, is run by the controller/calculator based on the program counter, instead of skipping over the revised program in the ROM; See claim 1, lines 23-25).

Furthermore, the Applicant recites the limitation "an address-coincidence-disabling system that disables the coincidence between said comparison address data and said return-address set in said program counter by said return-address-setter" (See claim 1, lines 26-28), which causes that the claimed invention cannot achieve the objective of the applicant's invention, such that the objection of the applicant's invention is to provide a microcomputer with a program-revision ability, wherein a revision can be made in an optional location of programs stored in a ROM thereof (See Application, page 4, line 23 through page 5, line 1), because said controller/calculator (i.e., CPU) would fetch and execute the defective part of ROM after completion of the revision execution, i.e., the program counter has been set said comparison address data (i.e., address data of the defective part in ROM) as the return address of the interrupt-processing when the interruption-processing has been completed (See claim 1, lines 23-25).

Even though the specification is sufficiently enabling with respect to the Applicant's invention based on the text disclosure, pages 47-48 and page 70, lines 1-15, it does not reasonably provide enablement of the scope of the Applicant's claimed invention, especially the subject matters in the amended claim 1. Thus, the Applicant's argument on this point is not persuasive.

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Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher E. Lee whose telephone number is 703-305-5950. The examiner can normally be reached on 9:00am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark H. Rinehart can be reached on 703-305-4815. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Christopher E. Lee Examiner Art Unit 2189

cel/

SUMATI LEFKOWITZ
PRIMARY EXAMINER

Sumeti Afhourt